

## Abstract

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The present invention provides a multipurpose input device installed at a front stage of a power supply circuit. The multipurpose input device is formed by winding a fusible/resistance winding around a magnetic component having a high resistivity and a high permittivity. The fusible/resistance winding has the functions of a fusible link, an inrush current limiter, and an EMC choke. The conventional three separate subassemblies can be replaced with the multipurpose input device of the present invention to reduce the cost and shrink the volume. The present invention also conforms to the requirements of safety and EMC.

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